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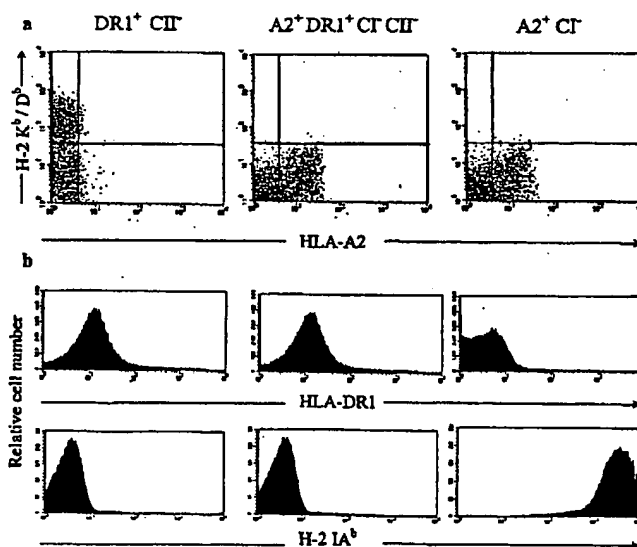
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(54) Title: TRANSGENIC MICE HAVING A HUMAN MAJOR HISTOCOMPATIBILITY COMPLEX (MHC) PHENOTYPE,  
EXPERIMENTAL USES AND APPLICATIONS



(57) Abstract: The present invention relates to transgenic mice and isolated transgenic mouse cells, the mice and mouse cells comprising a disrupted H2 class I gene, a disrupted H2 class II gene, a functional HLA class I transgene, and a functional HLA class II transgene. In embodiments, the transgenic mouse or mouse cells are deficient for both H2 class I and class II molecules, wherein the transgenic mouse comprises a functional HLA class I transgene and a functional HLA class II transgene. In embodiments, the transgenic mouse or mouse cell has the genotype HLA-A2\*HLA-DR1\*B2m\*IA8°. The invention also relates to methods of using a transgenic mouse of the invention.

WO 2005/004592 A3

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